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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,899	10/21/2003	Chang-Hsin Kuo	MR2723-173/DIV	3756
7590	11/17/2004		EXAMINER	
Asian Pacific INT'L P&T Office SUITE 101 3458 ELLICOTT CENTER DRIVE ELLIOTT CITY, MD 21043			SMITH, JULIE KNECHT	
		ART UNIT	PAPER NUMBER	
			3682	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/688,899	KUO ET AL.
Examiner	Julie K Smith	Art Unit 3682

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b):

## Status

1)  Responsive to communication(s) filed on 26 June 2003.

2a)  This action is FINAL.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## **Disposition of Claims**

4)  Claim(s) 1-16 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-16 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 26 June 2003 is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All    b)  Some \* c)  None of:

1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 6/26/03.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: \_\_\_\_ .

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims refer to a “self-locking” adjustment mechanism. It is unclear as to how the mechanism is self-locking when it requires manual assistance to lock and unlock a locking tumbler.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: Claim 1 contains no structural relationship and none of the claims

contain a structural relationship is between the two springs and the two index pins with the rest of the invention.

6. Claim 5 recites the limitation "the internal spline" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.

7. Claim 15 recites the limitation "the central member" in line 4. There is insufficient antecedent basis for this limitation in the claim.

8. Claim 15 recites the limitation "the distal end ramp" in line 4. There is insufficient antecedent basis for this limitation in the claim.

*Claim Rejections - 35 USC § 102*

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-4, 6-8, 11, 12 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki (4,813,810). Suzuki discloses a locking linear adjustment mechanism (see fig. 57) comprising a locking tumbler (5), an adjustment vernier (12), two end adapters (28, 128), two roll pins (18), two precision balls (8R,L), two locking skirts (206R,L), two springs (24, 124), two locking splines (132R,L), two index pins (30, 130), and two guide shafts (see fig. 57). The locking tumbler comprises a longitudinally extending member having two opposing ends, each end having a recess defined therein and further comprising two opposing pockets (7R, 7L) configured to retain two balls (8R, 8L), said locking tumbler secured in place axially by roll pins

(18) that tangentially engage grooves in the locking tumbler. The adjustment vernier (12) includes a central member having two tubular members extending therefrom, wherein each tubular member includes proximal and distal ends relative to the central member of the adjustment vernier and a plurality of slits (26, 126) equally spaced about an associated tubular member. The precision balls are positioned not to be in contact with faces of the locking splines when the mechanism is in a locked position. Each end adapter (28, 128) extends longitudinally and has inner and outer ends, the inner end of the adapter being configured for engaging the distal end of a corresponding tubular member of the adjustment vernier (12) and the outer end of the adapter engaging another element, said adapter including a hole for allowing guide shafts to pass through. The locking skirts (206R,L) are configured for fitting around an assembly of locking splines, index pins and guide shafts.

### *Conclusion*

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

3,309,951 to Patt

5,588,464 to Tylosky

5,778,733 to Stringer

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie K Smith whose telephone number is 703-305-3948. The examiner can normally be reached on Monday-Friday, 8-5:30, (Every other Friday off).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on 703-308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JF  
Jks

November 3, 2004

*William C. Joyce* 11/3/04  
WILLIAM C. JOYCE  
PRIMARY EXAMINER